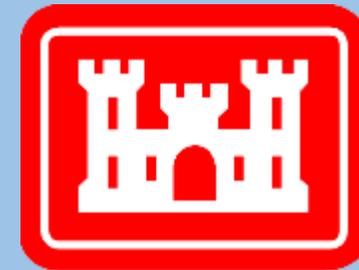


Community Advisory Group

Raymark Industries,
Inc. Superfund Site
Stratford, CT

Jim DiLorenzo, EPA
Mike Looney, USACE
Rachel MacPhee, USACE
Alivia Coleman, Health Dept.

May 31, 2023



**US Army Corps
of Engineers®**

To download presentation slides visit:

Stratfordct.gov/Raymark

Hybrid Meeting Guidelines

Virtual Attendees:

- Everyone will be muted throughout the presentations - please stay muted to eliminate background noise.
- Hold questions until the end of each presentation.
 - Use the chat box.
 - Mute yourself after speaking

Everyone:

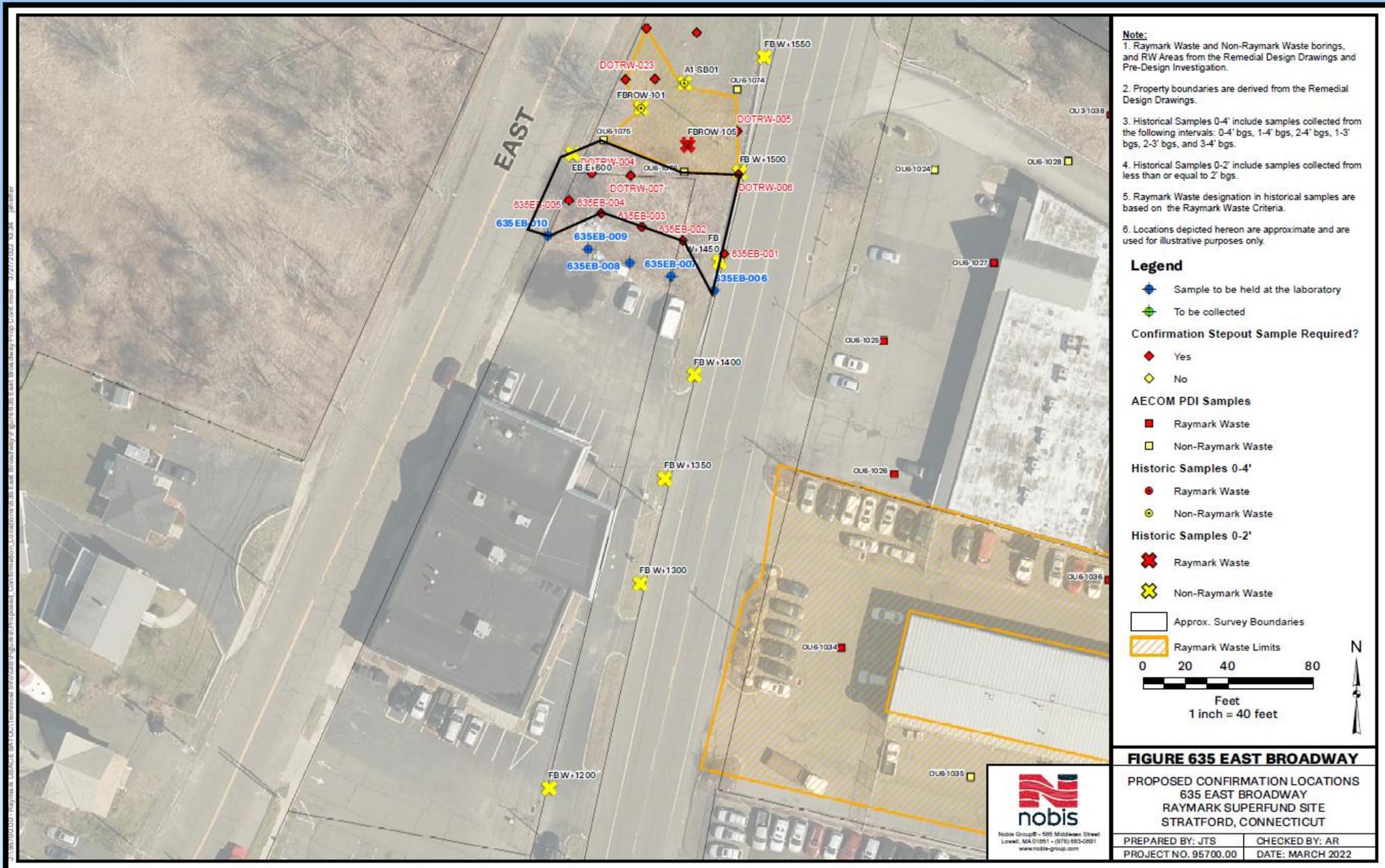
- Ask questions related to the presentation topic
- Please be respectful of time, so everyone has a chance to speak
- Be respectful and patient.
- Talk one at a time.
- **This meeting will be recorded.**

AGENDA

- INTRODUCTIONS AND MEETING RULES
- OPERABLE UNIT 6 (OU6) and 3 (OU3) UPDATES
- MORGAN FRANCIS UPDATES
- RAYBESTOS MEMORIAL FIELD (OU4)
- STORMWATER CONVEYANCE SYSTEM
- AIR MONITORING/TRAFFIC ROUTE UPDATES
- EXPLANATION OF SIGNIFICANT DIFFERENCES (ESD)
- OVERALL PROJECT SCHEDULE

OU6 Updates

635 East Broadway



635 East Broadway

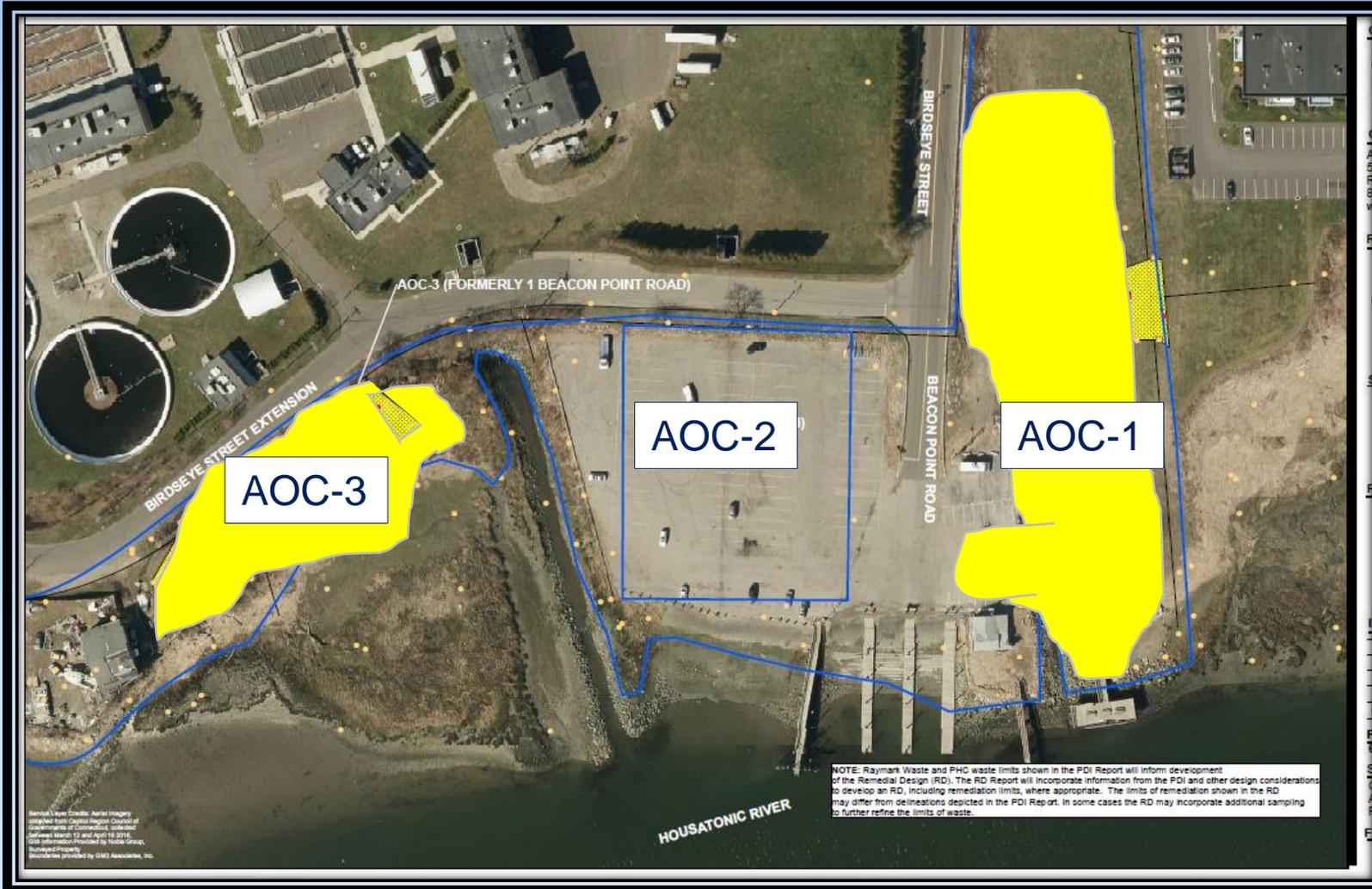
- April 2023
- 277 cubic yards (30 truck trips)
- Drains 5-acre Morgan Francis property at 600 East Broadway
- Sewer crossing acting as weir
- High iron
- Culverts largely blocked



Before and After



Beacon Point Area



3 Areas of Concern (AOCs)

- AOC-1: Town and Condo
- AOC-2: Town
- AOC-3: Town and Private Boat Yard

AOC-2 – no excavation (deep)

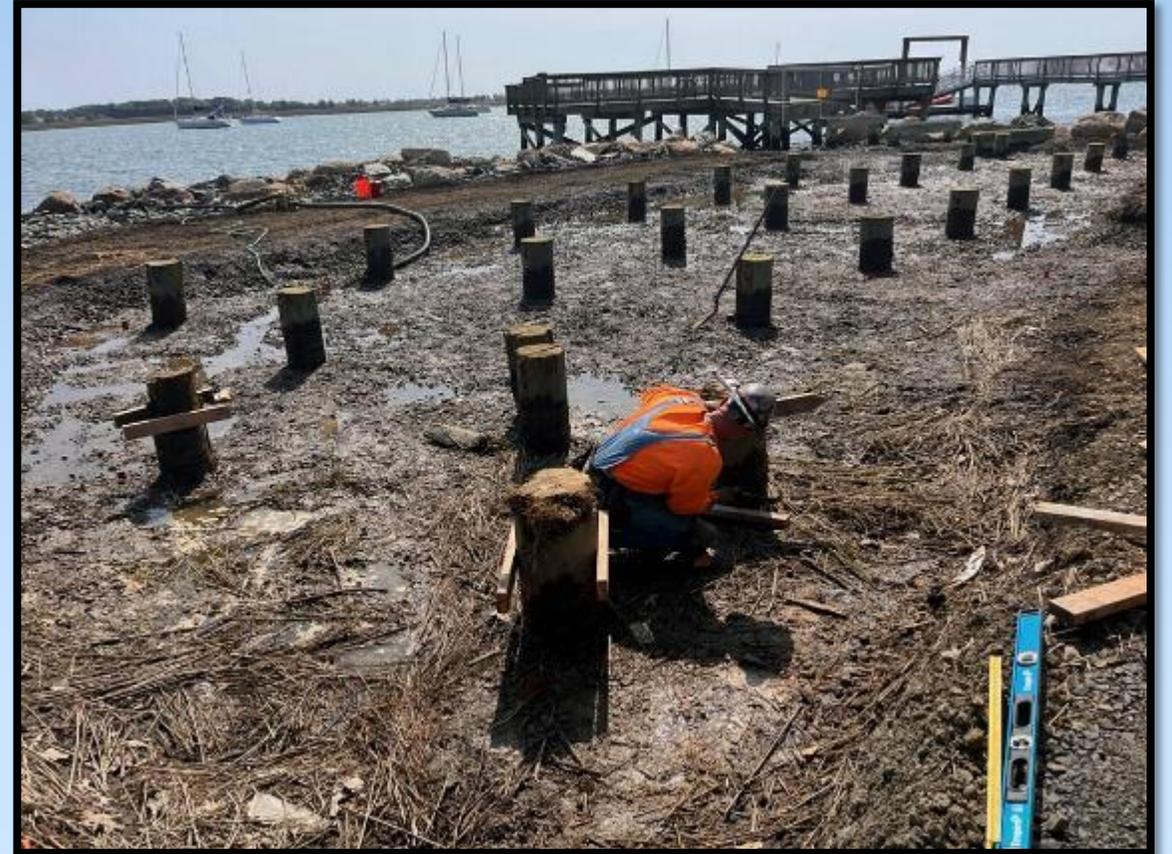
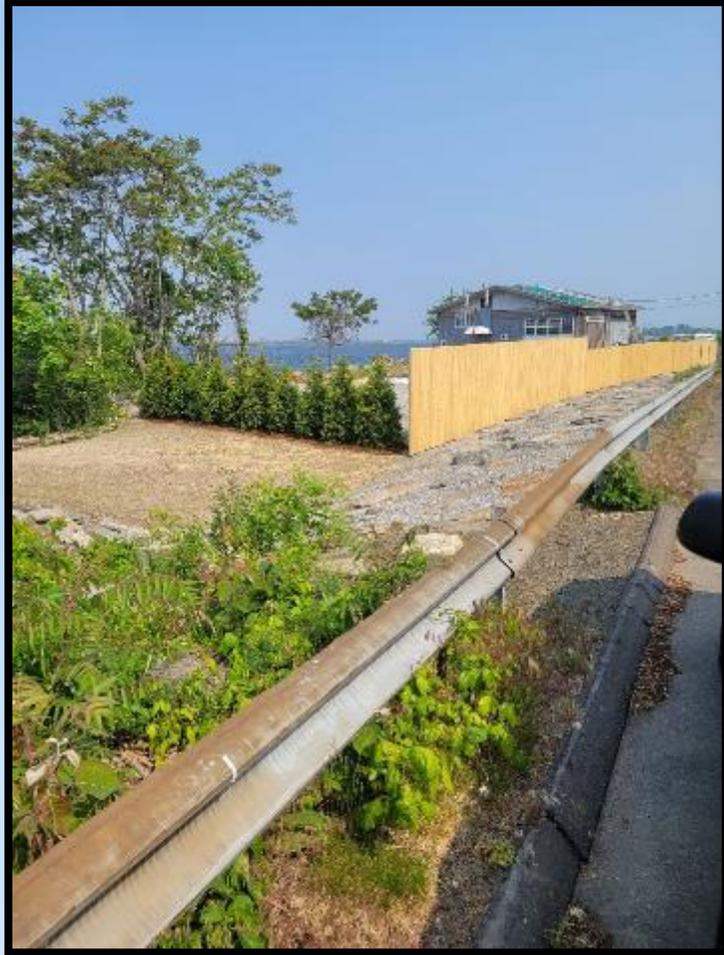
AOC-1/AOC-3

- Excavation Nov 27, 2022 to March 23, 2023
- Dock construction underway
- Fully restored by mid-June

RW: 11,484 yds (925 trucks)

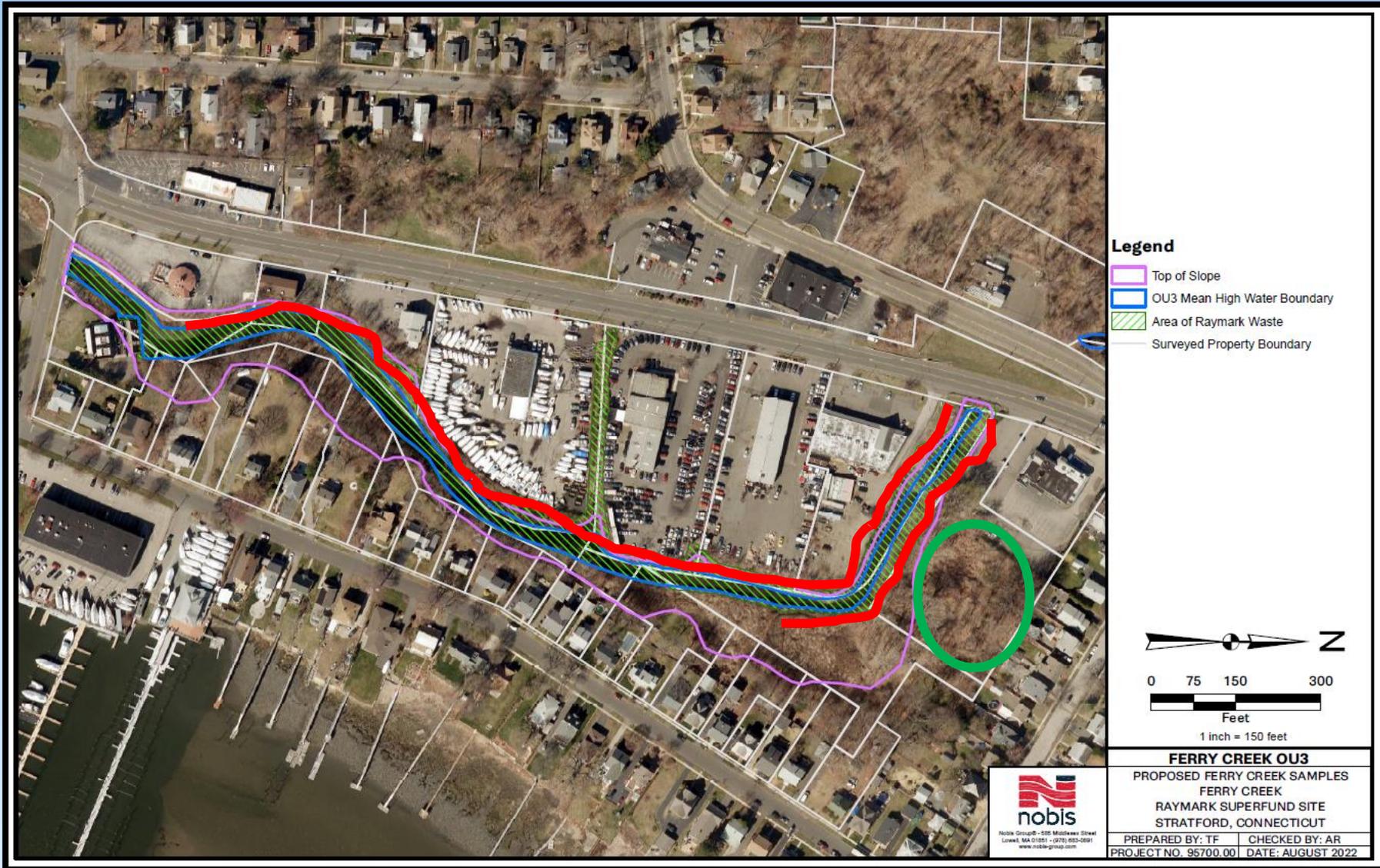
PHC: 457 yds (53 trucks)

Restoration at AOC-1 and AOC-3



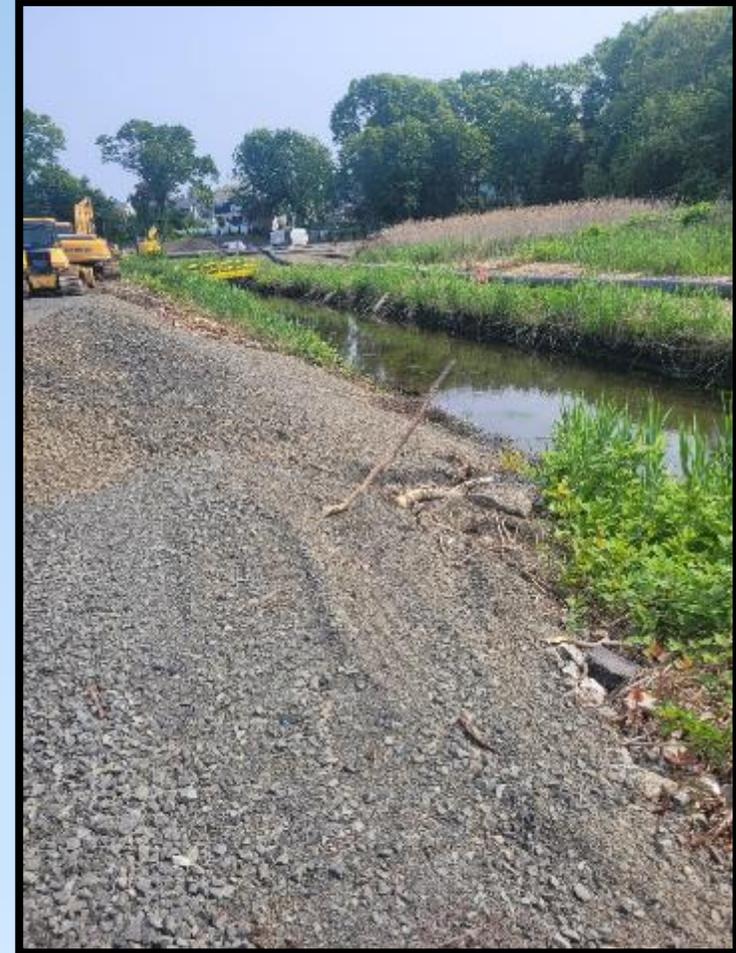
OU3 Ferry Creek

Ferry Creek Remediation



- Ferry Blvd to Broad Street
- About 1/3 mile
- Channel: 2ft of sediment
- Portions of banks (red): 4ft
- Vol estimate is 12,000 CY
- 277cy PHC removed
- Clearing is complete
- Bypass pipe installed
- Water treatment plant (green circle)
- About 9 months

Vacant Lot Laydown (left) / PHC Area (right)



Haul Road (left) / 24" By-Pass Pipe (right)



OU3/OU6 Remediation Tracking Table

Area	Location	Excavation Dates	Volume (cy)	Truck Trips?	No. Prop	Notes
September 2020 to May 2023 – 18 properties completed						
Beacon Point AOC-1	Town/Condo	Nov 27, 2022 to June xx, 2023	9,095	727	2	Phase 3 ELUR needed
			131	13	2	
Beacon Point AOC-3	Town/Boat Yard	Jan 16, 2023 to May 25, 2023	2,389	191	2	Phase 3 ELUR needed
			326	52	2	
635 East Broadway	Open Space/Culvert	April 2023	277	30	1	Phase 3 – ELUR Iron/Drainage
OU3 Ferry Creek	Commercial creek bank	March to xx 2023				
		May 8 to 10, 2023	598	56	1	Behind car dealerships
TOTALS TO DATE =		Raymark Waste	52,874	4,516	23	
		PHC Waste	6,252	585	14	

Remaining OU6 Properties



- Note:**
1. USACE evaluation of sample results determined that sample did not meet all thresholds for step-out criteria and further step-out sample collection is not required.
 2. USACE evaluation of sample results determined that sample met all thresholds for step-out criteria and further step-out sample collection is required.
 3. Raymark Waste and Non-Raymark Waste borings, and RW Areas from the Remedial Design Drawings and Pre-Design Investigation.
 4. Property boundaries are derived from the Remedial Design Drawings.
 5. According to FEMA's National Flood Hazard Layer, the property 35 Third Avenue and parcels to the north, east, and south are located in the AE EL-11 Floodplain. Parcels to the west are located in the VE EL-14 Floodplain.
 6. Historical Samples 0-4' include samples collected from the following intervals: 0-4' bgs, 1-4' bgs, 2-4' bgs, 1-3' bgs, 2-3' bgs, and 3-4' bgs.
 7. Raymark Waste designation in historical samples are based on exceeding the Raymark Waste Criteria.
 8. Locations of site features depicted hereon are approximate and given for illustrative purposes only.

Legend

- Proposed Confirmation Boring
 - Post Construction Confirmation Sample
- Raymark Waste detected? (0-4')
 - Yes
 - No
- Historical Samples 0-4'
 - Raymark Waste
 - Non-Raymark Waste
- Water Line
- Natural Gas Line
- Raymark Waste Limits
- Stratford Parcels

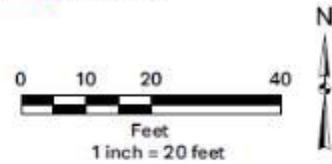


FIGURE 1 - 35 THIRD AVE 0-4FT BGS



GCTO2
 35 THIRD AVENUE
 RAYMARK SUPERFUND SITE
 STRATFORD, CONNECTICUT

PREPARED BY: JTS	CHECKED BY: AR
PROJECT NO. 95700.00	DATE: FEBRUARY 2022

Third Ave ROW

Spring 2023?

Lockwood Ave (2023-2024)



- Note:**
1. Raymark Waste and Non-Raymark Waste borings, and RW Areas from Seed TO Spec Figures.
 2. Raymark Waste and Non-Raymark Waste borings, and RW Areas from the Remedial Design Drawings and Pre-Design Investigation.
 3. Property boundaries are derived from the Remedial Design Drawings.
 4. Raymark Waste designation in historical samples are based on the Raymark Waste Criteria.

Legend

- Confirmation Boring Type**
- ◆ To be collected
- AECOM PDI Samples**
- Raymark Waste
 - Non-Raymark Fill
- Historic Samples 0-4'**
- Raymark Waste
 - Non-Raymark Fill
- PHC Waste Limits**
- ▨ PHC Waste Limits
 - ▨ Raymark Waste Limits

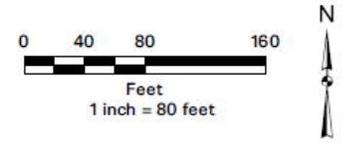
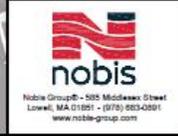
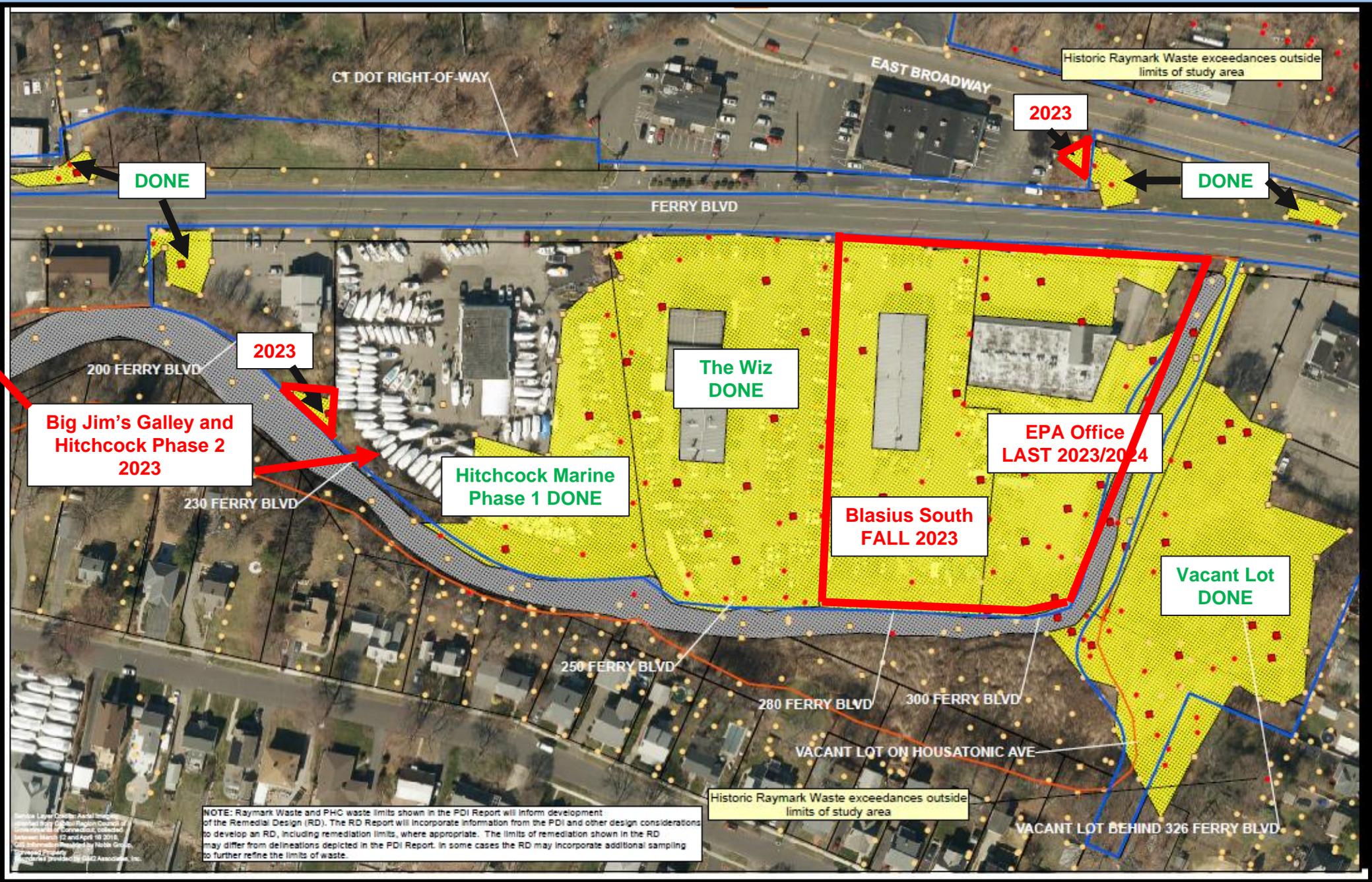


FIGURE 1

PROPOSED SAMPLE LOCATIONS
 LOCKWOOD AVENUE
 RAYMARK SUPERFUND SITE
 STRATFORD, CONNECTICUT



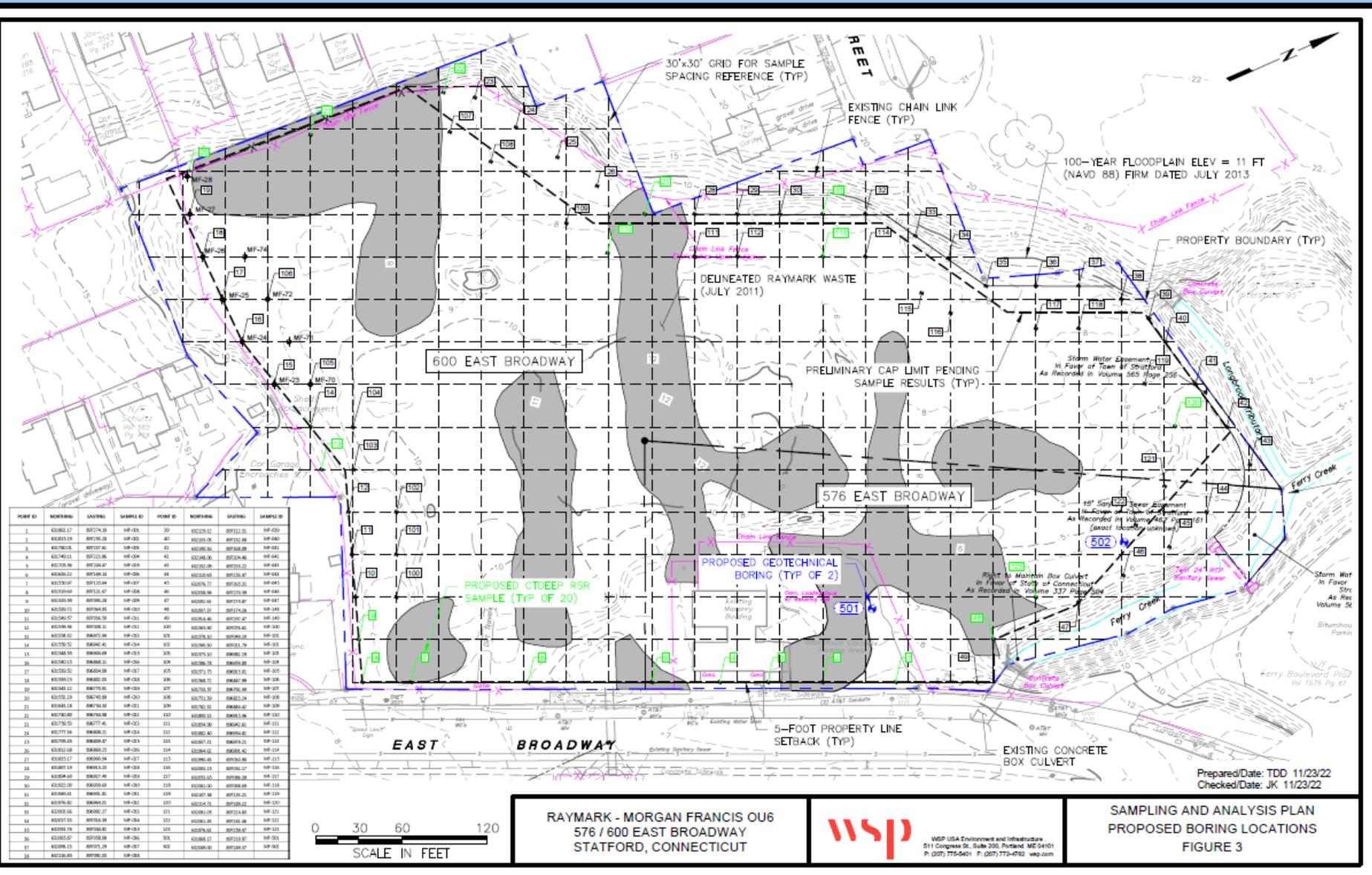
PREPARED BY: JTS	CHECKED BY: AR
PROJECT NO. 95700.00	DATE: NOVEMBER 2021



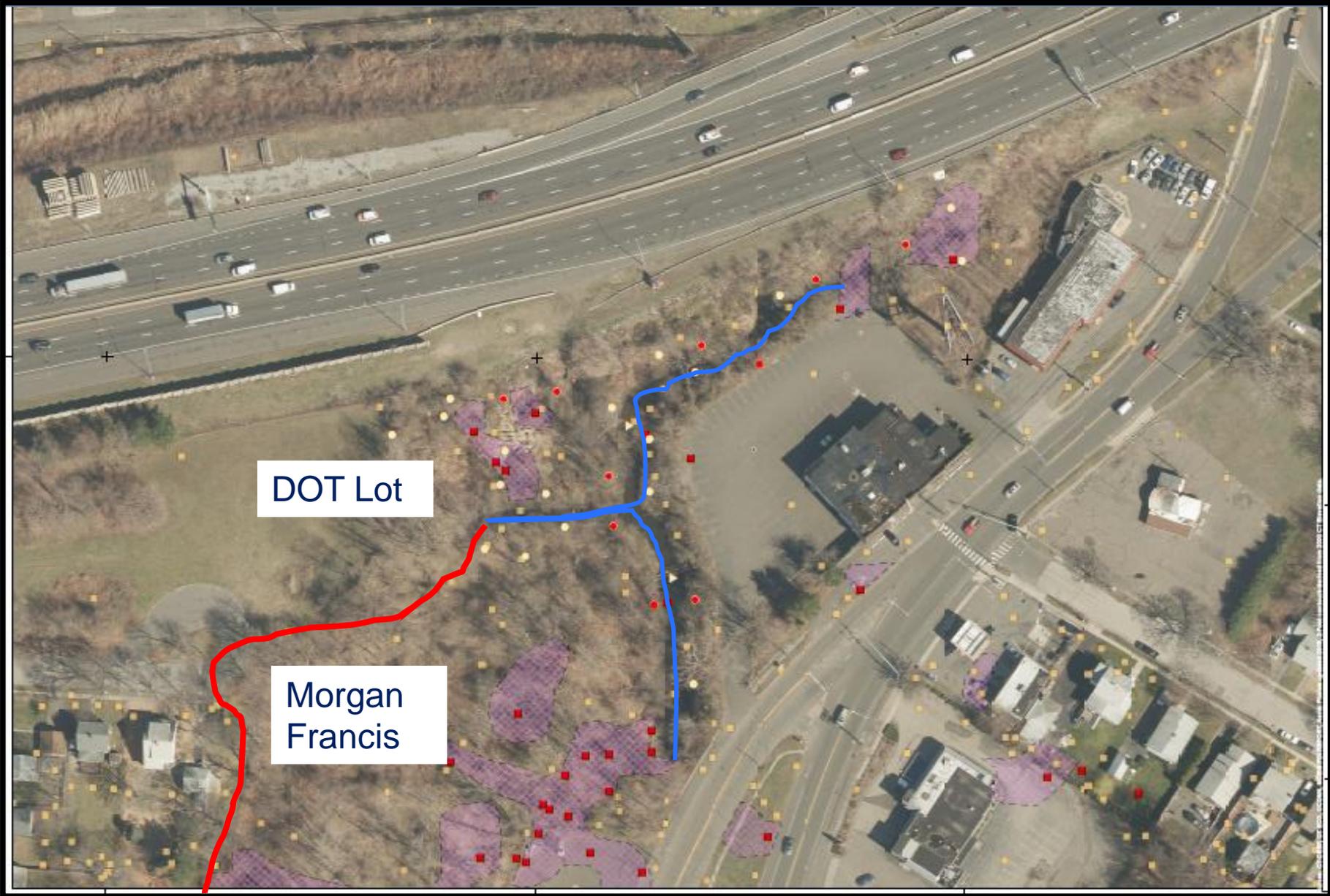
OU6 Morgan Francis
576/600 East Broadway

576/600 East Broadway - Morgan Francis

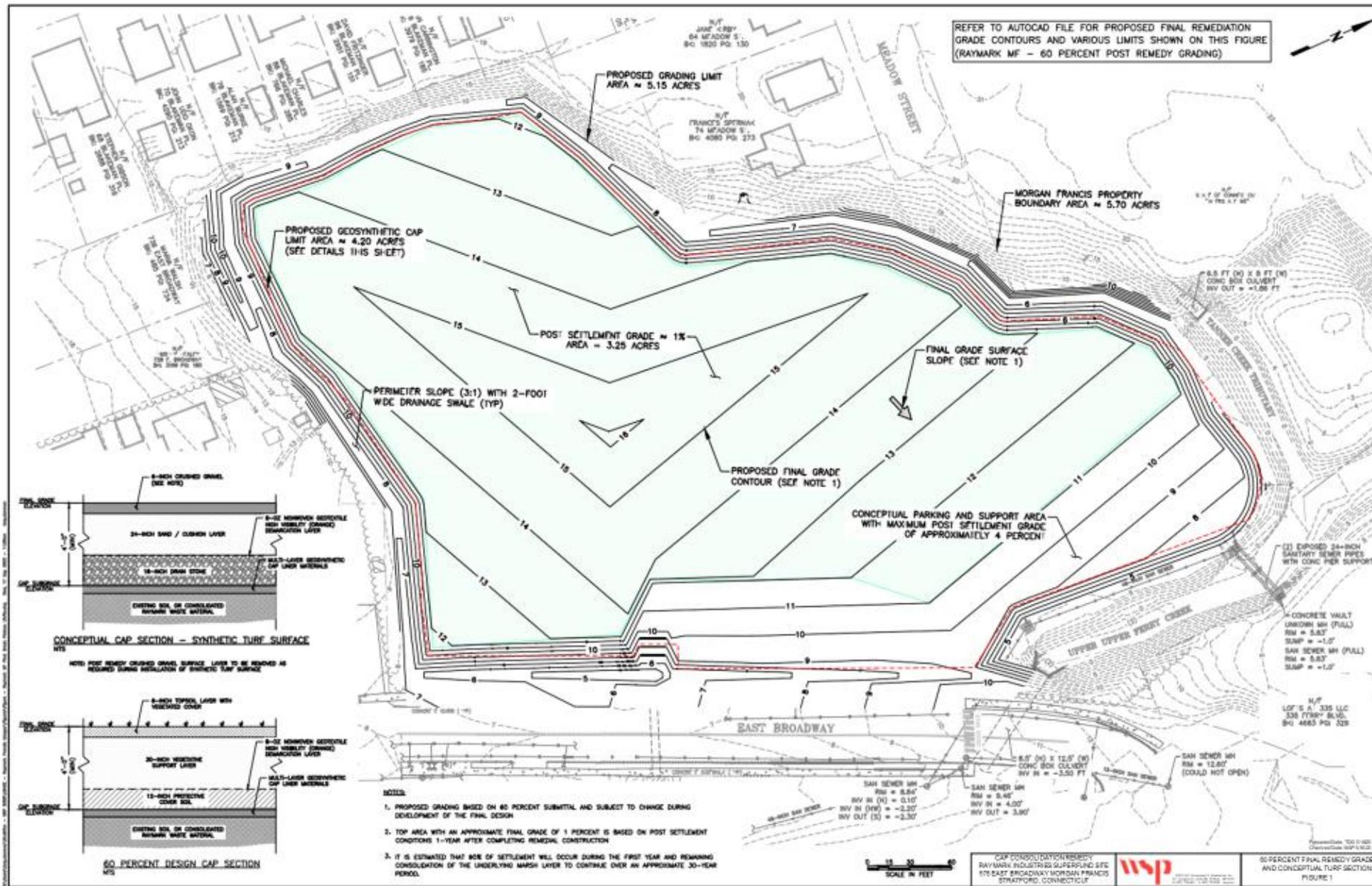
- 2011 ROD
 - Cap in place
 - Storage units
- Update design
 - Recreational use
 - Consolidate adjacent RW
 - 60% Design
- ESD in 2023



Uppermost Ferry Creek and DOT Lot



60% Remedial Design



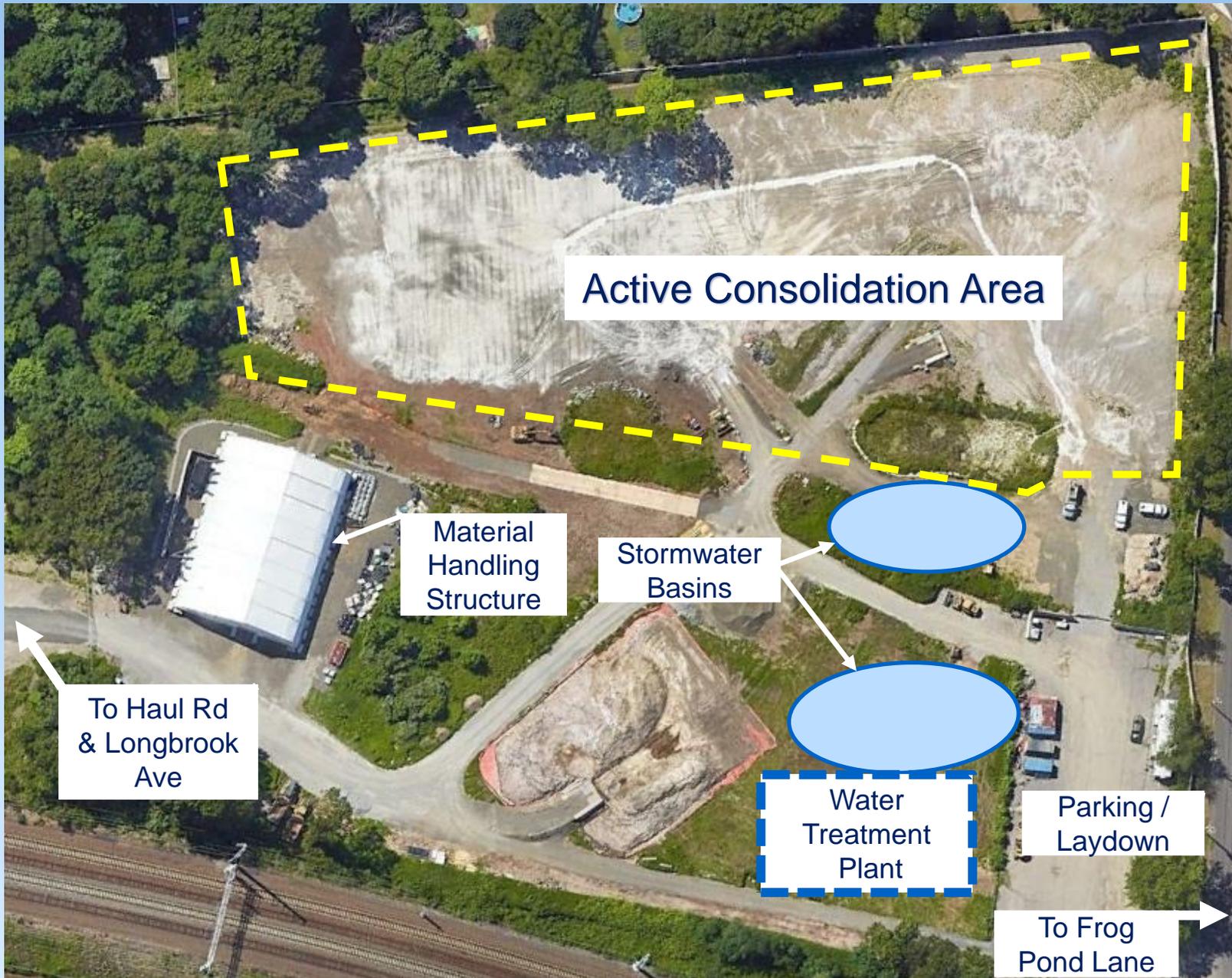
OU4 Updates

OU4 Ballfield Work Completed or Ongoing Since March



- Approximately 53,000 CY of material has been consolidated, compacted, and covered to date
- Posi-Shell cover has been applied on all previously imported Raymark Waste at the Ballfield
- Consolidation area reconfiguration to accommodate expansion
- Stormwater conveyance line construction underway
- Pumpstation construction is underway
- 6 perimeter air monitors at OU4 are operating daily
- Summer operations: grading, compaction, and increased wetting in effect

OU4 Consolidation Area



- Approximately 53,000 CY of material has been consolidated, compacted and covered
- Posi-shell or approved cover placed over waste at end of each day

Reconfiguration of OU4 :

- New primary access road
- New stormwater basins
- Water treatment plant

OU4 Consolidation Area



Loading Amended Soil for Consolidation



Material Placement Within OU4 Consolidation Area

OU4 Consolidation Area



Material Grading Within
OU4 Consolidation Area



Roller Compaction

OU4 Consolidation Area



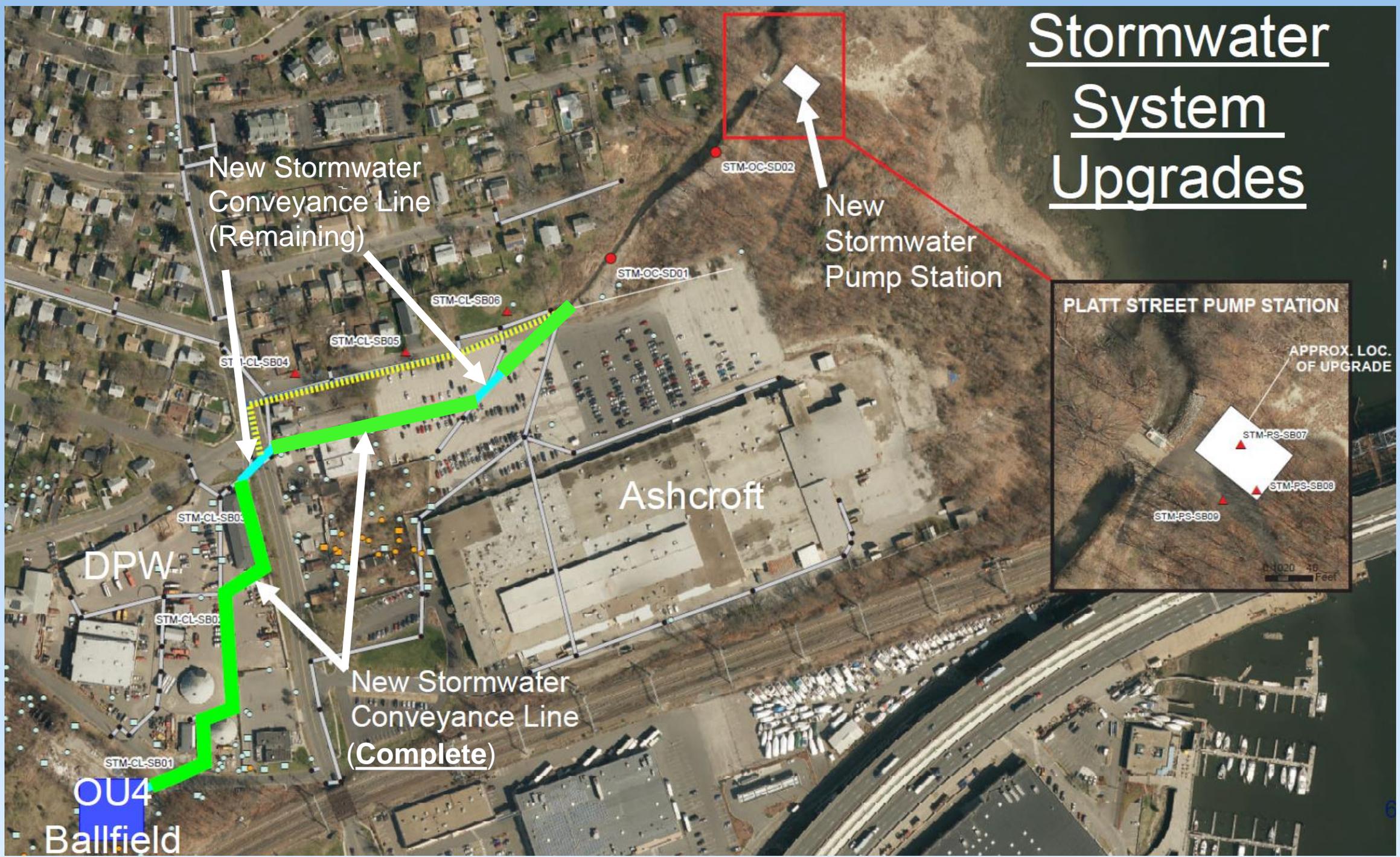
“Dust Boss” water application



Water truck

OU4 Stormwater System

Stormwater System Upgrades



New Stormwater
Conveyance Line
(Remaining)

New
Stormwater
Pump Station

PLATT STREET PUMP STATION

APPROX. LOC.
OF UPGRADE

Ashcroft

DPW

New Stormwater
Conveyance Line
(Complete)

OU4

Ballfield

STM-OC-SD02

STM-OC-SD01

STM-CL-SB06

STM-CL-SB05

STM-CL-SB04

STM-CL-SB03

STM-CL-SB02

STM-CL-SB01

STM-PS-SB07

STM-PS-SB08

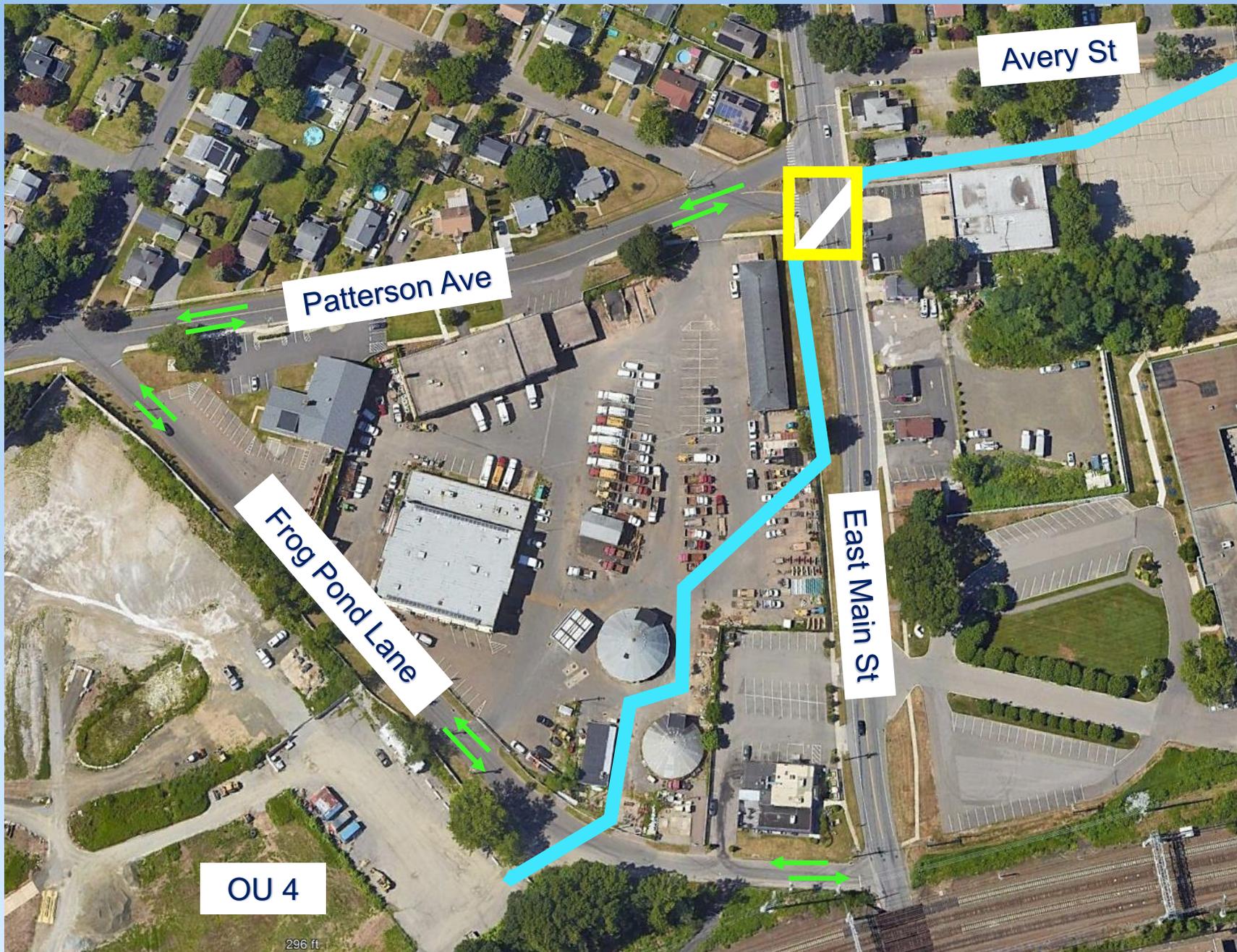
STM-PS-SB09

1"=40' 0" 40 Feet

Stormwater System

East Main Street Crossing

- Underway
- 4-6 weeks
- Lane closure, detour
- Coordination with Stratford PD and local businesses
- 15'-20' BGS
- Significant utilities



Stormwater Conveyance



Concrete Headwall
Construction



Concrete Pile Cap
Construction

Stormwater Conveyance



Completed Headwall



Pile Cap
Construction

Stormwater Conveyance



Articulating Concrete Block (ACB)
Channel Armoring

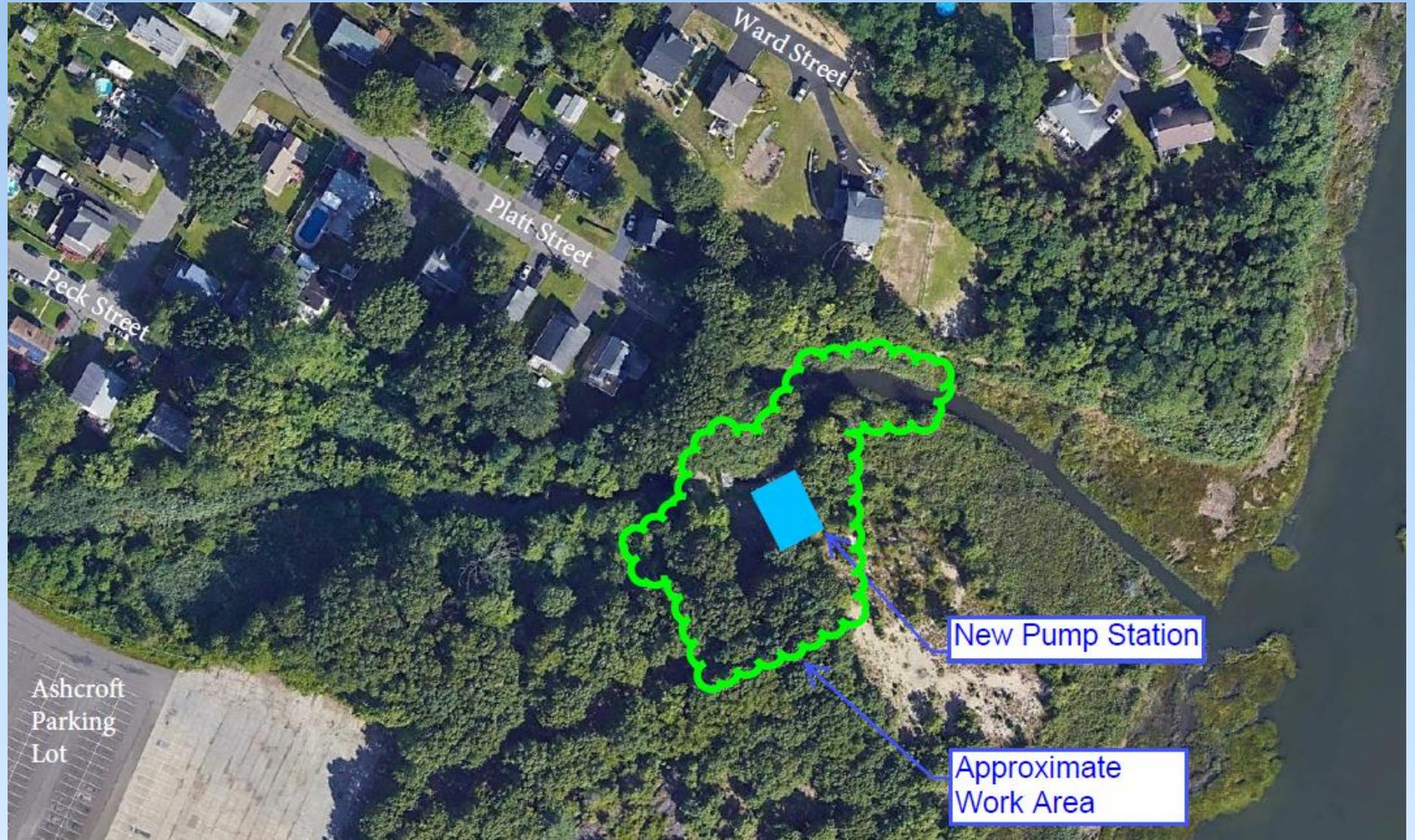
New Pump Station

- P&S Construction – Prime contractor
- Construction underway
- Construction duration approximately 24 mo.
- 4 Axial Flow Pumps
- 200 CFS Capacity
- Operates during significant storm and high-water events
- Masonry Pumphouse



Pumpstation – completed and upcoming site work

- Site access and preparation complete
- Sheet pile installation complete
- Dewatering well point installation complete
- Dewatering system setup complete and running
- **Excavation of building footprint underway**
- Blasting will be required to remove approximately 5-12' of underground ledge (rock) within the pumpstation footprint



Pumpstation Site



May 1, 2023 at 10:37:35
250 E Main St
Stratford CT 06614
United States

Excavation Area



May 17, 2023 at 10:47:43
57 Platt St
Stratford CT 06614
United States

Pumpstation – Ledge Removal



- Maine Drilling and Blasting
- Approach is to minimize ground vibrations as much as possible
- Home inspections will be conducted in the vicinity of the work
- EPA and USACE will coordinate with homeowners for home inspections
- Vibration monitors will be deployed
- Each blast event will generally occur between 10:00 AM and 11:00 AM
- It is estimated that there will be approximately 10 blast events over a period of 3 weeks
- Work is expected this summer
- Site will be secured from public
- Multiple 6000 lb blasting mats will be utilized

Air Monitoring

Raymark Air Monitoring Program

- Dust monitoring protects workers and abutting community
 - Dust Action Levels based on property and type of work
 - Action Levels = 0.014 (OU4) and 0.019 mg/m³ (OU3 and OU6) when Raymark Waste handled.
 - Action Levels = 0.075 mg/m³ (OU4 Early Detection Station)
 - Action Level = 0.150 mg/m³ when only clean soil handled
 - Chemical samples collected for lab analysis when Raymark Waste is handled
 - Low safety threshold – STOP WORK before any potential risk to workers or community
- Vibration monitoring conducted
 - STOP Work = 0.5 inches/second



Chemical Sampling Port

Dust Monitoring Station



Personnel Monitoring



Monitored Tasks

OU4

- Spreading and compacting RW
- Management of RW in TFS



OU3

- Excavating PHC soil along Ferry Creek



635 E. Broadway

- Excavation
- Restoration



Vibration Results

- Vibration threshold was exceeded in three short intervals on 5/30.
- Exceedances were caused by moving equipment in vicinity of the meter.
- Corrective Action: Working more carefully and avoiding moving equipment near the monitor and building.
- No additional vibration exceedances were reported this monitoring period.

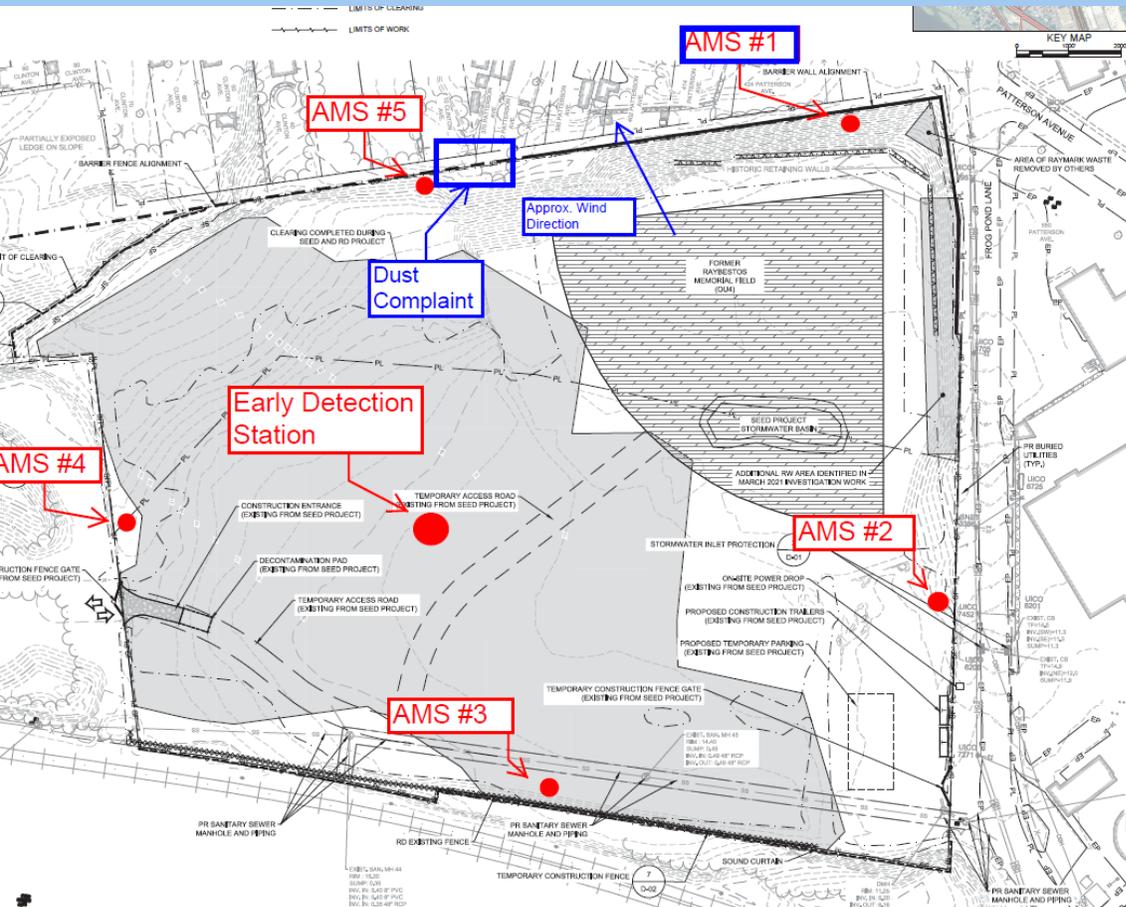


SWC -
Backfilling Post
Box Culvert
Installation



SWC - Pouring
Pile Caps

Air Monitoring Results



- One asbestos sample at OU4 from 4/11-4/12 was lost during transport to the lab.
 - The rest of the media at station 1 (Copper, Lead, and PCB's) were all ND. Asbestos did not exceed reporting criteria at other stations for the 4/11-4/12 period, or the remainder of the week.
- A visible dust complaint at OU4 was reported to EPA by a nearby resident on 4/12.
 - A tree subcontractor was dragging logs from along the barrier across the consolidated material (Non RW) to a waiting track near the dump ramp.
 - Winds were gusting around 20/25mph and variable.
 - No mitigation was undertaken since the tree moving work was complete immediately after this incident.

Tue, 30th of May 2023, 7:40:00 – 16:40:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m ³ DustTrak 8540 852209			Mass Conc. Total mg/m ³ AVG 15m mg/m ³ DustTrak 8540 852209		
MIN	AVG	MAX	MIN	AVG	MAX
0.011	0.057	0.224	0.0114	0.0543	0.1925

Name OU-4 Station 1
S/N 08338064
Description Perimeter Dust
Location 100 Frog Pond Ln,
Stratford, CT 06614,
USA

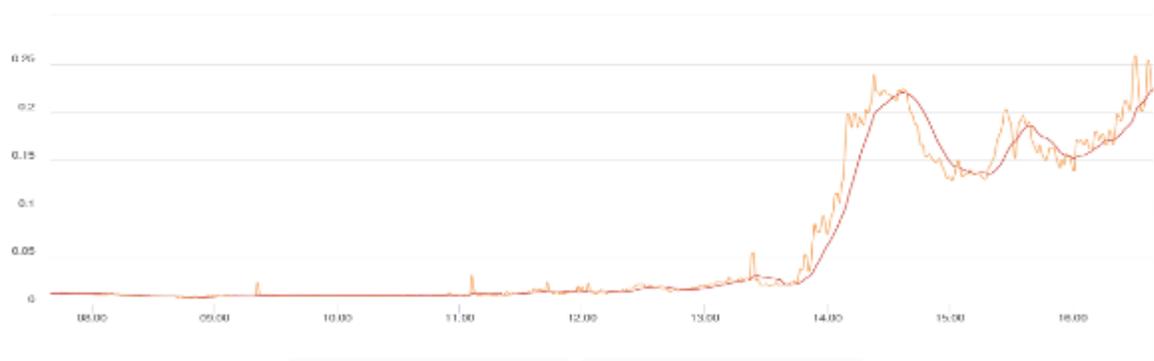
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Mass Conc. Total mg/m ³ DustTrak 8540 852209			Mass Conc. Total mg/m ³ AVG 15m mg/m ³ DustTrak 8540 852209		
MIN	AVG	MAX	MIN	AVG	MAX
0.007	0.056	0.272	0.0076	0.053	0.2233

Name OU-4 Station 3
S/N 08270154
Description Perimeter Dust
Location 100 Frog Pond Ln,
Stratford, CT 06614,
USA

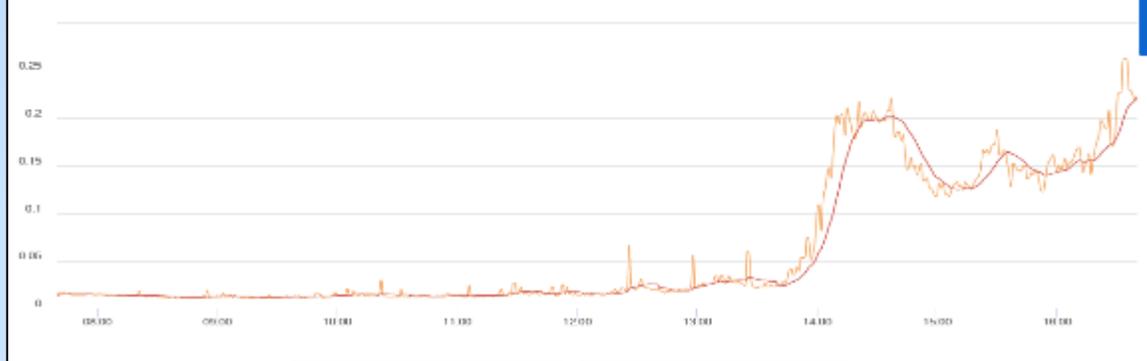
Tue, 30th of May 2023, 7:40:00 – 16:40:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m ³ DustTrak 8540 852209			Mass Conc. Total mg/m ³ AVG 15m mg/m ³ DustTrak 8540 852209		
MIN	AVG	MAX	MIN	AVG	MAX
0.007	0.061	0.259	0.0072	0.0586	0.2221

Name OU-4 Station 2
S/N 08350268
Description Perimeter Dust
Location 100 Frog Pond Ln,
Stratford, CT 06614,
USA

Tue, 30th of May 2023, 7:40:00 – 16:40:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m ³ DustTrak 8540 852209			Mass Conc. Total mg/m ³ AVG 15m mg/m ³ DustTrak 8540 852209		
MIN	AVG	MAX	MIN	AVG	MAX
0.011	0.061	0.262	0.0114	0.0582	0.2191

Name OU-4 Station 4
S/N 08323872
Description Perimeter Dust
Location 100 Frog Pond Ln,
Stratford, CT 06614,
USA

Explanation of Significant Differences (ESD)

What Is an ESD?

- Documents “significant” changes to a previous EPA clean-up decision document (Record of Decision or ROD)
- 2011 ROD (OU6 Morgan Francis)
 - Changes to the cap design
 - Consolidate RW from abutting portion of DOT and Ferry Creek
- 2016 ROD
 - Additional properties, non-excavation properties, stormwater changes
- Informational public meeting and 30-day comment period

Project Schedule

Consolidation Remedy Schedule



- **OU6**

- Restoration Ongoing - Beacon Point
- June - 3rd Ave ROW?
- Summer 2023 to **2024** – Lockwood Ave?
- 2023 Fall – Blasius Dealership
- 2023-**2024** Winter/last: EPA Office/Formal Ski Shop

- **OU3**

- 2023 April to Dec : Ferry Creek (East Broadway to Broad St)
- Hitchcock Marine, Liquor Store, Big Jim’s Galley

- **OU4**

- 2024: Construct cap

← Construct Stormwater And Pump Station

← Morgan Francis Design

← ESD

← OU5 ROD

Next CAG Meeting July 26th at 6:30pm

For more information about the Raymark Superfund Site, including copies of presentation slides, documents and meeting minutes, please visit: stratfordct.gov/raymark

Thank you for joining!

- Visit stratfordct.gov/Raymark for updates, contact information, air monitoring results, meeting dates, meeting recordings and Powerpoint slides
- Email Alivia at: acoleman@townofstratford.com with further questions, concerns, feedback or to sign up for email distribution list.